

Appl. No.: 10/716,651
Amdt. dated 12/15/2005
Reply to Office action of 09/09/2005

Amendments to the Specification:

Please replace the paragraph bridging pages 5 and 6 with the following replacement paragraph:

-- The rotary apparatus 10 includes a housing 12 that defines an inlet 14 and an outlet 16. A rotor 30, which in this case is a turbine wheel, is rotatably mounted in the housing 12 and configured to rotate with the passage of gas through the housing 12. Thus, gas enters the inlet 14 flowing in a direction 15 generally tangential perpendicular to the longitudinal axis of the rotor 30 and a shaft 50, flows circumferentially in a volute 18 extending circumferentially around the rotor 30, and then flows generally radially inward through a nozzle 20 to the rotor 30. The gas exerts pressure on a plurality of radially extending blades 32 on the rotor 30, thereby turning the rotor 30. The gas then flows in a generally axial direction 17 out of the outlet 16 of the housing 12. The rotor 30 is connected to the shaft 50 such that the shaft 50 turns as the rotor 30 is rotated. As used in a turbocharger, the shaft 50 typically extends through a center housing (not shown), where bearings can support the shaft 50 and oil can be provided for lubrication and cooling. Opposite the center housing from the turbine 10, the shaft 50 can be connected to a compressor wheel (not shown) in a compressor such that the compressor is rotatably operated as the turbine 10 rotates the shaft 50. --